Spring Student Symposium Schedule

Friday, April 11, 2025

Updated on 4/10/25

Welcome by Steve Snyder, Interim President of Middlebury College

9 AM in McCardell Bicentennial Great Hall (MBH)

Online Presentations (available all day)

1. Resisting and Reimagining Morocco: Visual Narratives and Colonial Transformations During the French Conquest (1912–1956)—Erik Budo Uerkwitz '26 • Peter Tarjanyi

Grassroots and Witches

MBH 104

Moderated by Steve Snyder

9:15 AM Witches, Women, and War: Civil Strife and Persecution in the Matthew Hopkins and Connecticut Witch-Hunts—Camryn Brielmann '25 • Elsa Mendoza

9:35 AM Bridging Cognition and Communication: The Impact of Language Awareness on L2 Learning—Salomé Moreno '25 • Shawna Shapiro

9:55 AM Learning Effects: Honduras Conditional Cash Transfer Program—Kelcey Dion '25 • John Maluccio

10:15 AM From “Sexy Bingo” to “Spicy Bingo”: A Transnational Comparison of Student-Led Sexual Health Education and Activism in Canada and the US—Roxanna Alvarado '25 • Kristin Bright

Good Body

MBH 216

Moderated by Michelle McCauley

9:15 AM Investigating the Cognitive Impact of Community Water Fluoridation—Taylor Han '25 • David Munro

9:35 AM The Power of Rape Myths: Sexual Assault Cases in Japan’s Prestigious Universities—Karen Ito '27 • Linda White

9:55 AM Getting (In Your) Head: A Theory on the Communally Composed Vagina—Gayathri Mantha '25 • Jamie McCallum

10:15 AM The Relationship Among Smartphone Addiction, Social Media Addiction, and Social Intelligence—Athena Nooney '25 • Emily Strasburg '25 • Kim Cronise

Give It Away Now: Aid and Outcomes

MBH 219

Moderated by Dan Courcey

9:15 AM Granting Change: Navigating Bureaucracy in Philanthropy and the Nonprofit Sector—Andrey (Andy) Cao '25 • Jamie McCallum

9:35 AM CVOEO Community Needs Assessment Data Analysis - STAT0711—Sarah Capute '25.5 • Will Lichstein '25 • Ciara Murphy '25 • Alex Lyford

9:55 AM Intent vs. Impact: Analysis of US Federal Water Infrastructure Grants—James Cummings '25 • Bert Johnson

10:15 AM Prelude to Revolution: Foreign Debt, Bullets, and Bread in the Political Economy of Egypt from Nasser to Mubarak—Santiago Canella '25 • Febe Armanios

Ancient Political Philosophy

MBH 220

Moderated by Murray Dry

9:15 AM Ancient Political Philosophy on Socrates— • Maya Bryan '25.5 • David Gross '25 • Thie Harthono '28 • Jillian Holley '25 • Thaddeus Pompidou '25.5 • Xuanjian Zhu '28 • Murray Dry

All The Small Things

MBH 303

Moderated by Michael Durst

9:15 AM Ecological Drivers of Lyme Disease: Analyzing Tick, Mouse, and Deer Interactions Using NEON Data—Kingsley Poon '25.5 • David Allen

9:35 AM Developing a Microscope to Image Thicker Samples in the Infrared—Lindsay Lessing '25 • Michael Durst

9:55 AM Addressing the Environmental Implications of Fuel Cell Catalysts through Metal-Oxide Nanocrystal Synthesis—Audrey Welsh '25 • Alex Bredar

10:15 AM Exploring Quantum Entanglement in Bose-Einstein Condensates—Aaliya Vij '25 • Chris Herdman

One Number Away

MBH 311

Moderated by Zu Zhai

9:15 AM Can High Levels of Economic Development Cause an Increase in Fertility Rates? A Macroeconomic Analysis of Development and Fertility—Thomas Haugen '25 • John Maluccio

9:35 AM Improving Consumer Decisions in the ACA Marketplace: A Lab-Based Experiment on the Effect of Risk-Tailored Cost Estimates—Grace Augspurger '25 • Erick Gong

9:55 AM Leveraging Regional EMS Data to Transform Emergency Response Capabilities—Nina Farhat '25 • Hank Nelson '25 • Gavin Thomsen '25 • Alex Lyford

10:15 AM Women, Work, and Wages: A Fresh Look at Gender Equity in Vermont—Maria Gutierrez Delgado '26 • Claire Yang '25 • Charlotte Zhuang '25 • Alex Lyford

Winds of Change

MBH 317

Moderated by Will Amidon

9:15 AM Un Análisis Sistemático Del Uso de la Tierra Y Asuntos Ambientales en la Patagonia (A Systematic Analysis of Land Use and Environmental Issues in Patagonia)—Shayah Kosak '27 • Miguel Fernández

9:35 AM Trees on the Move: Mapping the Future of Blue Oak Trees in Southern California—Lily Weissman '27 • Alexis Mychajliw

9:55 AM Broken Promises: Landfills, Race, and Environmental Justice in the Rogers Road Community—Maggie Bryan '25 • Kathryn Morse

10:15 AM Tracking Recent Uplift in the Adirondacks—Lucas Nerbonne '25.5 • Will Amidon

Find Myself a City to Live In

MBH 403

Moderated by Jim Ralph

9:15 AM The Policies, Progress, and Challenges of Building Retrofits in Boston—Swara Douglas '25 • Dan Suarez

9:35 AM Legacy Routes and Wealthy Flight: Tracing Socioeconomic Migration Patterns from NYC Amid COVID-19 Pandemic—Helena Gu '25 • Peter Nelson

9:55 AM Vision Zero: Policy Change for Urban Spaces—Ted Chambers '25 • Erick Gong

10:15 AM Solidarity and Spilled Milk: How the Palestine Question Fractured the Progressive Politics of Philadelphia's First Black Mayorship—Sade Awodesu '25 • Lana Povitz

Cruel Perception

MBH 411

Moderated by Hector Vila

9:15 AM A Statistical Approach to Meeting Community Needs in Southeast Vermont—Logan Cosgrove '25 • Kate Wohl '25 • Alex Lyford

9:35 AM Put Your Trust in the People's Liberation Army: The Role of Confidence Building in China's Military Relations—Katherine Michaelson '25 • Jeffrey Lunstead

9:55 AM Beyond Lovozero: Russia, Ukraine, and the Treatment of the Kola Sámi—Eleanor Roth '25 • Rebecca Mitchell
10:15 AM From Screen to Skill: How Home-Based Digital Learning Influences Teachers' Recognition of Students' Non-Cognitive Skills—Sammy Conrad-Rooney '25 • Matt Lawrence

Morning Posters

10:30-11:15 AM in the MBH Great Hall

1. Look At Where I Was Then and Where I Am Now" Analyzing Afghan Women Refugee's Narratives in Burlington VT—Rodaba Husseini '25.5 • Jennifer Ortegren
2. Simulating Quantum Bubbles in Ultra-Cold Gas—Paul Shen '26 • Chris Herdman
3. Tracking Wildlife in Cornwall: Monitoring Habitat Connectivity Through Community Science—Alina Scott '25 • Alexis Mychajliw
4. Colloidal Synthesis and Characterization of Cobalt Oxide—Sage Yenari '25 • Alex Bredar
5. The Effect of Arthropod Predators on Deer Tick Density—Owen McCarthy '25 • David Allen
6. Investigating the Moderating Role of Source Perception in Climate Change Communication—Alexander Scott-Hansen '25 • Michelle McCauley
7. Detangling Vermont Urban Stream Stressors—Thomas Walsh '25 • Eric Moody
8. The Role of Glial Cells in Traumatic Brain Injury—Gabriela Clemente '26 • Amanda Crocker
9. Reproducibility of wireless stencil-printed carbon electrodes and refinement for point-of-care multiplex biomarker sensing—Jasper Pearcy-Kahn '26 • Kira Rahn
10. Trauma and Trafficking: An Exploration of Trafficking Prevalence in Trauma Research—Aliya Hosford '25 • Martin Seehuus
11. The Economic Viability of Solar Energy-Water Desalination Cogeneration in Jordan—Ishaani Sharma '25 • Kristina Sargent • Gary Winslett
12. Influence of Neuronal Synchrony in Response to Diazepam on Navigational Learning Strategy—Sam Ellinwood '25 • Piper Chase '25 • Michael Dash
13. Appropriate Entrepreneurship, Judicial Evolution, and Real Estate Divergence in China: Insights from SCCEI's China Briefs Series—Divyanshi Raturi '25.5 • Jessica Teets
14. The Identification and Analysis of Microbes in Maple Sap—Morgane Orcutt '25 • Emily Putnam
15. Colors of Home—Sajia Yaqouby '25.5 • Sarah Rogers
16. Gambling, Vaping, and Depression in Adolescents before vs during the Covid-19 Pandemic—Sophie Larocque '26 • Zu Zhai
17. From Farm to Table: The Impact of ACORN Food Hub's Local Network on Vermont Communities—Carina Huang '25 • Joseph Holler
18. Anti-Racism in the Writing Center—Sheila Camacho '25 • Melissa Hammerle
19. Shifts in basal food resources for benthic macroinvertebrate communities in 8 wadeable streams along an urbanization gradient in Burlington, VT—Kayley Porter '25 • Eric Moody
20. Analysis of the Effects of Urbanization on Net Spinning Caddisflies—Sophie Schuele '25 • Molly Costanza-Robinson
21. Public Perceptions of Climate Solutions at Middlebury College—Maya Teiman '25 • Julia Berazneva
22. Camera Trapping as a Means of Community Engaged Science—Samuel Medina '25 • Alexis Mychajliw
23. 3D Models of Corals to Document Disease Progression—Maya Henning '25 • Erin Eggleston
24. Does Prosecutor Strategy Impact Crime Rates in Cities Across the United States?—Jack Undercofler '25 • Bert Johnson
25. Specimen Preservation and Preparation Techniques—Ariel Zhang '26 • Alexis Mychajliw
26. Minor Leagues, Major Aspirations: The Impact of Semi-Professional Sports Stadiums on County-Level Labor Markets—Jake Oblak '25 • John Maluccio
27. Every Day Bother Model: Stress and Reproductive Outcomes in Mice—Zoe Tray '25 • Amanda Crocker
28. Road Salt in Soils: Metal Displacement Analysis via Cation Exchange Processes—Isabella Butcher-Salazar '25 • Molly Costanza-Robinson
29. Building a Structured Illumination Microscope—Ryan Greguski '25 • Michael Durst
30. Climate Change in the Peruvian Andes: Environmental Impacts and Indigenous Women's Agricultural Solutions (El Cambio Climático en los Andes Peruanos: Efectos Ambientales Y Soluciones Agrícolas de las Mujeres Indígenas)—Megan Paluska '25 • Irina Feldman

31. Investigating Oral Microbe Growth in Various Sugar Sources Under Aerobic and Anaerobic Conditions—Penny Ly '25 • Emma Guiberson
32. Development of Targeted Quantitative LC-MS/MS Assays for Microbial-Derived Metabolites in Biological Samples—Yuhang Wu '27 • Emma Guiberson
33. Identifying Metabolic Signatures of Rothia dentocariosa Resulting from Various Sugar Sources—Pearl Dlamini '25 • Emma Guiberson
34. Investigating Oral Microbial Growth Under Aerobic and Anaerobic Conditions Using RNA Sequencing—Roxanna Alvarado '25 • Aashna Banerjee '27 • Emma Guiberson
35. Metabolic Characterization of Common Bacterial Growth Media—Caroline Lawler '27 • Emma Guiberson
36. The Living Building Challenge at Middlebury— Swara Douglas '25 • Tyler Hadar '25 • Tyler Stark '27 • Jack Byrne • Mike Moser • Sam Ostrow

Binary Systems

MBH 104

Moderated by Thomas Anderson

11:15 AM Dismantling Democracy: The Effects of Russian Cyber Warfare on Polarization in the United States—Brooke Allison '25.5 • Gary Winslett

11:35 AM Push Factors of Migration in Honduras: Analyzing the Role of Violence, Economic Conditions, and Demographic Characteristics (2017-2023)—Maggie Coughlin '25 • John Maluccio

11:55 AM Fatal Loves on a Quest for Immortal Beauty? A Comparative Study of Plato's "Symposium," Flaubert's "Madame Bovary," and Tolstoy's "Anna Karenina"—Yuran Tong '25 • Pavlos Sfyroeras

12:15 PM High Resolution Spectroscopy of the High-Mass X-ray Binary 4U 1700-377—Colin Bourque '25 • McKinley Brumback

More Than Words

MBH 216

Moderated by Jeremy Ward

11:15 AM On the Distribution of Demonstratives in Moroccan Arabic—Summer Eaton '25 • Usama Soltan

11:35 AM Shaping Collective Memory: Change in Japanese Newspaper Language on 2011 Fukushima Nuclear Accident—Aida Worku '25.5 • Sayaka Abe

11:55 AM Are We Friends? Exploring Semantic Variation in and Around the Term "Friendship"—Sylvi Teich '25.5 • Sayaka Abe

12:15 PM IVF, Democracy, and God: Understanding Church-State Relations Through the Frozen Embryo—Christopher Martucci '25 • Jennifer Ortegren

It's Not Easy Being Green

MBH 219

Moderated by Minna Brown

11:15 AM Is there a Green Side to Privatization? The Environmental Impact of Privatization in Latin America’s Energy Sector—Tessa Marker '25 • Nadia Horning

11:35 AM Who’ll Stop the Rain: The Effect of Natural Disasters on Local Elections—Jack McGuire '25 • Erick Gong

11:55 AM Tackling Climate Change on the Soccer Pitch: Exploring Environmental Attitudes Among Players of a 'Green' Soccer Team—Max Moscaliov '25 • Sanmyukta Shinde '25 • Markus Gerke

12:15 PM Pursuing Policy for the Preservation of Place: An Analysis of Act 250, Vermont’s Pivotal Land Use Regulation, and Its Implications for Housing and Economic Wellbeing—Maeve Nolan '25 • Erick Gong

Lookin' Out my Back Door

MBH 220

Moderated by Grace Spatafora

11:15 AM Implementing Makerspace Safety Protocols—Isaac Rosario '25 • Alex Lyford

11:35 AM Rethinking Resiliency: How Vermont Can Prepare for a Flood-Prone Future—Paige Theodosopoulos '25 • Christopher Klyza
11:55 AM Analyzing Trace Metal Bioaccumulation in Benthic Macroinvertebrates in the Lake Champlain Basin Watershed—Annika Vikstrom '25.5 • Eric Moody
12:15 PM Geology at the Snow Bowl—Anna Krouse '25.5 • Dave West

We Don't Need No Education
MBH 303
Moderated by Molly Anderson
11:15 AM How Teen Smartphone Use Changes Teen Birth Rates in America—Zeke Hooper '25 • Caitlin Myers
11:35 AM Gluten Free Life: Reflecting on Lived Experiences and the Factors Impacting the Quality of Life of People with Celiac Disease—Celia Hoffman '25 • Molly Anderson
11:55 AM How Girls Get Ahead: The Gendered Effect of Mothers' Education Level on Children's College Attendance in China—Claire Yang '25 • Matt Lawrence
12:15 PM Fossils in the Forts: Placed-Based Geoscience Education at Crown Point State Historic Site—Alivia Hartz '26 • Alexis Mychajliw

Fear and Risk Societies
MBH 311
Moderated by Amy McGlashan
11:15 AM The Effects of Red Flag Laws on Suicides Across the US—Ian Bolton '25 • Erick Gong
11:35 AM Political Monsters: The Politics of Fear—Cate Parkinson '25 • Kemi Fuentes-George
11:55 AM Land, Bodies, and Justice: an Introduction to Indigenous Disability Studies—Matthew Mills '25.5 • Susan Burch
12:15 PM Harnessing Uncertainty: The Rise of Authoritative Forecasting During the Fall of the Roman Republic—Ronan Corley '25.5 • Christopher Star

Quiet Riot
MBH 317
Moderated by Nicole Curvin
11:15 AM Bridge Burners and Train Stealers: Defending Southern Unionists in Knoxville—David Porges '25 • Kathryn Morse
11:35 AM Economic Consequences of Euroscepticism—Sarah Roberts '26 • Kristina Sargent
11:55 AM The Zeitgeist of the Roman People During the Fall of the Roman Republic—Fabien Achinda '25 • Jane Chaplin
12:15 PM Embedded in an American War: Photojournalistic Representations of the U.S. Invasion of Iraq—Evan Weiss '25 • Rebecca Mitchell

Black Studies Across Different Disciplines
MBH 403
Moderated by Viola Huang
11:15 AM HEIMBAU: Finding and making home in the German and Parisian Ballroom Scenes and Beyond—Brys Peralta-Grant '25 • Laurel Jenkins
11:35 AM all about Black love and community at middlebury—Casandra Dormeus '25 • Viola Huang
11:55 AM Unheard Narratives: Black Muslim Women's Experiences at Middlebury College—Hinda Ibraahim '25 • Viola Huang
12:15 PM Converting Wasted Votes into Legislation: An Empirical Investigation of The State Public Policy Outcomes of Partisan and Racial Gerrymandering—Abby Ward '25 • Bert Johnson

Fight For Your Right
MBH 411
Moderated by Dan Suarez
11:15 AM Carbon Leakage Impact on Lower Developed Economies—Evan Iskenderian '25 • John Maluccio

11:35 AM Exploring Land Use Impact on Wildlife in Human-Dominated Environments: A Study of the Ezo Red Fox in Hokkaido, Japan— Ava Moseley '25.5 • Jeff Howarth
11:55 AM Cutting "Forever" Short: The Impact and Limitations of the Stockholm Convention on Persistent Organic Pollutants (POPs)—Lily McGovern '25 • Dan Suarez
12:15 PM Diving Against the Tide: Gendered Labor, Sustainability, and Precarity of Jeju's Haenyeo in the Capitalocene—Katie Heo '25 • Michael Sheridan

Lunch Break 12:30-1:30 PM in Various Locations

Stressed Out: Managing Outside Stressors
MBH 104
Moderated by McKinley Brumback
1:30 PM Heritability and Interstrain Variation of Cocaine-Induced Negative Affective Withdrawal Symptoms in CC/DO Founder Strains—Malia Pollock '25.5 • Jack Suher '25 • Clarissa Parker
1:50 PM Exploring the Relationship Between Self-Esteem and Avoidant Coping in College Students—Aliya Hosford '25 • Athena Nooney '25 • Lillian Shattuck '25 • Martin Seehuus
2:10 PM The Effects of Overconfidence on Investment Decisions—Nathan Feinstein '25 • David Munro
2:30 PM Social Infrastructure in Practice: A Community-Based Path Forward—Ben Greer '25 • Peter Nelson

Teach the Children Well
MBH 216
Moderated by Kristin Hocker
1:30 PM Education Rooted in Place: Teaching the Intersection of Indigenous History and Local Ecology in the Catskills—Victoria Shuster '25 • Tracy Weston
1:50 PM Characterizing Bose-Einstein Condensation with Machine Learning—Omar Armbruster '25 • Chris Herdman
2:10 PM Analysis and Implementation of Probabilistic Primality Algorithm with Quantum Time Complexity Advantage—James Camp '25 • Shelby Kimmel
2:30 PM Perceptions of Trauma-Informed Teaching in Rural and Urban School Environments—Nina Schroeder '25 • Tracy Weston

What Are Words For
MBH 219
Moderated by Anne Hopkinson
1:30 PM What's in a Name: The Chester, Vermont Mascot Issue Political Identity and Non-Distributive Issues in Rural New England Towns—Georgia Millman-Perlah '25 • Bert Johnson
1:50 PM It's More than the Economy, Stupid: An Analysis of Rhetoric in the 2024 Election—Macy Daggitt '25 • Matthew Dickinson
2:10 PM Writing as Resistance: An Analysis of Levantine Prison Literature and Theory—Sophie Butler-Rahman '25 • Dima Ayoub
2:30 PM Examining Quebec's Language Policy: The Impact of Bill 101 on Immigrant Children's Educational and Labor Outcome—Mika-Anne Reha '25 • Erick Gong

#@&% the System
MBH 220
Moderated by Carlos Veloz
1:30 PM Access to Oncology Diagnostics and Therapeutics in a Transnational Perspective: A Comparative Ethnographic Study in Denmark and the United States—Emily Stone '25 • Kristin Bright
1:50 PM Natural Disasters and Sovereign Debt Markets—Amaan Habibulla '25 • Erick Gong
2:10 PM Primary Care and Migrant Health in Comparative, Transnational Perspective: A Critical Ethnographic Study of Danish and American Healthcare Systems—Hanna Medwar '25 • Kristin Bright
2:30 PM Statistical Consulting: Vermont Futures Project—Carly McAdam '25 • Alex Lyford

Making Space Making Place

MBH 303

Moderated by Matt Kimble

1:30 PM The Role of the Ethiopian Commodity Exchange and Trade Liberalization on Human Livelihood Outcomes—Alex Milley '25 • Erick Gong

1:50 PM The Virgin Lands Decade: Migration and Identity in Kazakhstan from 1954-1964—Maya Watson '25 • Rebecca Mitchell

2:10 PM Examining the scope of damage: How do school shootings harm mental health outcomes beyond those directly involved?—Emily Fox '25 • Erick Gong

2:30 PM The Impact of Upzoning on Housing Affordability: Evidence from Minneapolis 2040—Helena Gu '25 • David Munro

This Woman's Work

MBH 311

Moderated by Amy Morsman

1:30 PM Redefining Resistance: Examining Women's Agency in Revolutionary Ireland Through Cumann na mBan—Rachel Lafferty '25 • Amy Morsman

1:50 PM Going to School on Migrant Mothers' Experience in Addison County Public Schools—Celia Barabanov '26 • Ian Barrow

2:10 PM A Woman's Right to Private Conscience: The Early Stories of Mary Lavin—Tasha Deen '25 • Marion Wells

2:30 PM Parental Attachment Moderates Effects of Substance Use on White-Matter Microstructure—Oakley Martin '25 • Zu Zhai

A Day in the Life

MBH 317

Moderated by Sharon Wang

1:30 PM Dear Childhood: A Letter of Personal Love and Societal Loss—Madeline Reid '25 • Rebecca Tiger

1:50 PM Roll It Gyal—Leigha Francis '25 • Christal Brown

2:10 PM Merging Electronic Music, Womanhood, and the Singer-Songwriter—Marina Prikis '25 • McLean Macionis

2:30 PM An Enduring Reward: My Experience Writing Creatively in Japanese—Simon Boyer '25 • Kyoko Davis

Make It Last

MBH 403

Moderated by Pete Nelson

1:30 PM The Role of Public Opinion in Large-Scale Decarbonization—Cara Miles Fritz '25 • Christopher Klyza

1:50 PM The Role of Energy Independence in Building Resilient State Economies—Andrew Neumann '25 • David Munro

2:10 PM Building Sustainable Octopus Management in Jambiani, Zanzibar with Pottery as Artificial Dens—Evan Yurko '26 • Michael Sheridan

2:30 PM Electronic Waste and Environmental Justice: the Effects of Local Sociopolitical Processes—Ben Wagner '25 • Kemi Fuentes-George

Powers That Be

MBH 411

Moderated by Linda White

1:30 PM Faith Under the Rising Sun: Religion, Militarism, and the Theology of Colonialism in Imperial Japan (1868-1945)—Samuel Schneiderhan '25 • Elizabeth Morrison

1:50 PM The Faulty Machinations of the Mandate System: A Comparative Study of the Interplay Between Religion, Politics, and Conflict in Mandatory Lebanon and Mandatory Palestine—Teyonce Allison '25 • Amit Prakash

2:10 PM Geoengineering: Planet, Politics and the Price We Pay—Rosella Graham '25 • Gary Winslett• Obie Porteous

2:30 PM A Steppe Life and Afterlife: Chinggis Khan as a Religious Devotee and Figure—Keegan Gilsenan '25 • Elizabeth Morrison

Afternoon Posters

2:45-3:30 PM in the MBH Great Hall

37. Measuring Stream Discharge in the Lake Champlain Basin Across an Urbanization Gradient—Abby Holding '25 • Eric Moody
38. Self-Supervised Learning with Masked Images for Structural Variant Analysis in Short-Read Genome Sequencing—Sujay Banerjee '25 • Michael Linderman
39. Unveiling the Hidden Biodiversity of Hawai'i—YuBin Park '26 • Emily Putnam
40. Mapping COVID-19 Amenity Migration to Explore Rural Gentrification and Local Displacement in the Berkshires—Isaiah Bennett '25 • Peter Nelson
41. Cognitive Difference in Reading Numbers vs Words Using Eye-Tracking— Isabelle Cone '27 • Seunghyun Lee '27 • Amna Mohammed '28 • Olga Parshina
42. Development of a Computational Organic Chemistry Lab Modeling Strong Acid Reacting with an Alkene—Libby TenBarge '25 • Logan Fischer
43. Zebrafish Vivarium Management and Genetic Analysis of Embryonic Neurodevelopment—Mahnoor Ahmad '25 • Sky Awtrey '25.5 • Vib Kumar '25 • Jonathan Summerow '25 • Clinton Cave
44. Soil Temperature Buffering in a California Preserve—Asha Kannan '26 • Kirsten Coe
45. How firm-level outcomes are differentially impacted by corruption given different firm-level characteristics—Matt Hiller '25 • John Maluccio
46. Applied Metagenomics: A Bioinformatics Approach to Characterizing Cyanobacterial Bloom Dynamics of Lake Champlain in a Changing Climate—Birch Klomparens '25 • Erin Eggleston
47. Returning the Favor: The Effect of Campaign Contributions on Federal Assistance—Tianyu Chen '25 • Erin Wolcott
48. Photocatalytic Demethylation of Dimethylbenzylamine in Oxygen-Free Conditions—Natalie Pinerio '25 • Bruck Setu '26 • Lindsay Repka
49. Investigating the Underlying Mechanisms of Different Aversive Stimuli—Marian Ordonez '25 • Adriana Maria Santiago Lucena '25 • Amanda Crocker
50. Exploring Gap Junction Gating Mechanisms Through Mathematical Modeling—Krysta Pereira '26.5 • Liza Platonov '26 • Jennifer Crodelle
51. Using Schlieren Imaging to View Changes in the Density of Air—Colin Bourque '25 • Mao Koike '26 • Anne Goodsell
52. Impact of Residual Catalyst Concentration on the Photophysical Properties of Organic Semiconductors—Avery Maxwell '25 • Alexis Zhao '26 • Ben Cotts
53. Comparison Between Sedimentary Charcoal and Wildfire Indicators From a Transient Climate Model for the Western US over ~15 Ka—Piper Harring '25 • Cameron De Wet
54. Substance Use Moderates Mothers' Potential Abuse of Children on White Matter—Vedika Vaghmare '26 • Zu Zhai
55. Effects of Flutamide on Place and Response Learning in Castrated Male Rats—Ella Caddeau '25 • Keegan Leach '25 • Penelope Weekes '25 • Mark Spritzer
56. Effects of Testosterone on Brain Activity, Learning, and Behavior—Piper Chase '25 • Sam Ellinwood '25 • Caroline Kessler '25.5 • Rachel Kupferman '25.5 • Sydney Rogers '25 • Michael Dash
57. Salt In Your Water: Analyzing Salt Levels in Vermont's Streams Using Ion Chromatography—Maryam Junaid '26 • Molly Costanza-Robinson
58. Is the Impact of Foreign Official Purchases on Treasury Yields Different at the Zero Lower Bound?—Lujing Rui '25 • Erin Wolcott
59. Interactions of Microbes in Maple Sap—Kian Kardestuncer '26 • Kinley Pelmo Gyeltshen '25 • Emily Putnam
60. Impacts of IMF loans on Pakistan's Energy Sector—Afra Fairooz '25 • Sunder Ramaswamy
61. Optimizing a straight-channel electrochemical assay for cancer biomarker quantification—Athena Antippas '26 • Kira Rahn
62. The Second Generation Effects of a Conditional Cash Transfer Program (AGI-K) in Kenya—Chloe Katz '25 • John Maluccio
63. Relationship Between Mindfulness and Emotional Intelligence with a Focus on Interoception—Jahnavi Choraria '25 • Kim Cronise

64. Improving the Synthesis of a Thiolated Copper Hydride Atomically Precise Nanocluster (APNC)—Stock Stockham '26.5 • Alex Bredar
65. Habitat for Humanity High Performance Housing Design—Mica Bodkins '26 • David Cordon '26 • Sherlyn Gonzalez Mejia '26 • Kurt Le '26 • Eliane Odefey '25.5 • Tyler Stark '27 • John McLeod
66. Confirming the Efficacy of a Novel Empty Neuron System in Drosophila melanogaster—Alexander Ritsch '25 • Gregory Pask
67. The Power of Glaciers: Climate Change, Glacial Retreat, and the Future of Hydroelectric Energy in Iceland—Anna Geldert '25.5 • Peter Ryan
68. Foram.ai: An Active RLHF Framework For The "Automated" Estimation of C.Wuellersotorfi Porosity—Sally Liu '26 • Yahya Rahhawi '26 • Andrea Vaccari
69. The Formation of an Anthropocene Bird Assemblage in Vermont: Extinctions, Extirpations, and Arrivals—Max Chalfin-Jacobs '25 • Alexis Mychajliw
70. Monetary Policy Shocks and Home Values in the United States: Evidence using Zillow Data from 2000-2024—Pierce Bigelow '25 • David Munro

Crossings and Crossfires

MBH 104

Moderated by Will Pyle

3:30 PM The Problem of Evil: A Christian Response—Maximilian Stein '25 • Maria Hatjigeorgiou

3:50 PM The Great Cultural Furnace: Fusing the Buddhist Tradition and the Daoist Tradition in Medieval China—Yang Liu '25 • Don Wyatt

4:10 PM Behind Sinophobia in Kazakhstan: Chinese Investment and Shifting Public Opinion—Yuzhe (Oliver) Song '25 • Will Pyle

4:30 PM Idol and/or Hip-Hop Artist. Negotiations of Authenticity and Masculinity in K-pop and K Hip-Hop Industries—Karolina Ściesiek '28 • Louisa Stein

Magical Mystery Tour

MBH 216

Moderated by Marybeth Nevins

3:30 PM Studying Responses to Magic and Mentalism as Frameworks for Believability and Illusion of Control—Marco Motroni '25 • David Munro

3:50 PM Lucan's Godless Cosmos—Aidan Armstrong '25 • Christopher Star

4:10 PM Opening Channels to the Divine: Sacramental Labor and the Language of Christian Mysticism—Jiffy Lesica '25 • Maria Hatjigeorgiou

4:30 PM The Virgin Mary: From the Virgin of the Temple to the Tower of the Church—Andy Gobin '27 • Maria Hatjigeorgiou

Papa Don't Preach: Parenting and Politics

MBH 219

Moderated by Ajay Verghese

3:30 PM Moms For Liberty: Cultural Facilitators of Exclusion and Extremism—Divyanshi Raturi '25.5 • Ajay Verghese

3:50 PM Tracking Occupational Trajectory and Outcomes in the INCAP Guatemala Nutrition Intervention—Kate Wohl '25 • John Maluccio

4:10 PM Making Families Great Again: The Strategic Rhetoric of Trump's First 30 Days—Eliot Nebolsine '25.5 • Laurie Essig

4:30 PM He Kept Shouting Murder: Abortion Repression as an Authoritarian Practice in Nazi Germany and Vichy France—Charlotte Cebula '25 • Rebecca Bennette

Education Studies Seminar

MBH 220

Moderated by Tracy Weston

3:30 PM Education Studies Senior Seminar Research Projects—Selina Alyousef '26 • Sarah Chandler '25 • Casandra Dormeus '25 • Lauren Garcia-Stille '25 • Zoeie John '25 • Morganne Orcutt '25 • Madeline Reid '25 • Julia Roth '25 • B Striker Straker '25 • Lucy VanNewkirk '25 • Tracy Weston

Embodied Histories

MBH 303

Moderated by Fulya Pinar

3:30 PM Baba Platt Taught Me: The Narrative Storytelling Power of Michael B. Platt in Response to Hurricane Katrina—Aiden Levy '25 • Sarah Rogers

3:50 PM Winter Coats and Suitcases: Materialism and Mysticism in Salinger's Works—Nicole Meyers '26.5 • Maria Hatjigeorgiou

4:10 PM Mystery Garment Assignment: Men's Dressing Robe—Mingxuan Jia '28 • Summer Jack

4:30 PM Corstoreal—Liefe Temple '25.5 • Meshi Chavez

Northern Ireland and Conflict Transformation

MBH 311

Moderated by Sarah Stroup

3:30 PM Northern Ireland and Conflict Transformation—Mandy Berghela '26 • Jonathan Buchholz '27 • Lily Larsen '28 • Victoria Perez Hidalgo '28 • Danny Smith '27 • Evan Weiss '25 • Sarah Stroup

Oliver's Army

MBH 317

Moderated by David Stoll

3:30 PM Carthaginian Generals and Civil Government: A Study in Internal Politics—Paulo Costa '25 • Jane Chaplin

3:50 PM Echo Company: A Well Formed Unregulated Militia—Michael Matheson '25 • David Stoll

4:10 PM More Guns, More Crime? Examining New York's Concealed Carry Improvement Act—Cole Siefer '25 • David Munro

4:30 PM Quantifying the Battlefield Impact of Aid to Ukraine—Josiah Durfee '25 • Matthew Dickinson

Imagined Communities

MBH 403

Moderated by Mike Sheridan

3:30 PM Institutional Landholdings and Their Impact on Community Relationships in Middlebury, Vermont—Ruby Neustadt '25 • Michael Sheridan

3:50 PM Community Needs Assessment in Central Vermont—Ken Jin '26.5 • Anna Krouse '25.5 • Alex Lyford

4:10 PM An Imagined Island: British Perceptions of Architecture, Urban Landscapes, and Religious Identity in Early Modern Crete (1645–1715)—Ryan McElroy '25 • Febe Armanios

4:30 PM Maritime Republic or Colonial Empire? Venetian Stato da Màr as a Prototype of European Colonization—Delphine Wu '28 • Michael Sheridan

[MBH 411 no session]